APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO./TITLE
09/371,972	08/10/99	IOURCHA	K 3594-US

0232/0826

NOT ASSIGNED

ARNOLD M DE GUZMAN ESQ
FENWICK & WEST LLP
TWO PALO ALTO SQUARE
PALO ALTO CA 94306

2787

DATE MAILED:

08/26/99

NOTICE TO FILE MISSING PARTS OF APPLICATION
Filing Date Granted

An Application Number and Filing Date have been assigned to this application. The items indicated below, however, are missing. Applicant is given TWO MONTHS FROM THE DATE OF THIS NOTICE within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). **If any of items 1 or 3 through 5 are indicated as missing, the SURCHARGE set forth in 37 CFR 1.16(e) of** ☐ **$65.00 for a small entity in compliance with 37 CFR 1.27, or** ☒ **$130.00 for a non-small entity, must also be timely submitted in reply to this NOTICE to avoid abandonment.**

If all required items on this form are filed within the period set above, the total amount owed by applicant as a ☐ *small entity (statement filed)* ☒ *non-small entity is $ 130.00 .*

☐ 1. The statutory basic filing fee is:
    ☐ missing.
    ☐ insufficient.
    Applicant must submit $_____ to complete the basic filing fee and/or file a small entity statement claiming such status (37 CFR 1.27).

☐ 2. The following additional claims fees are due:

    $_____ for_____ total claims over 20.

    $_____ for_____ independent claims over 3.

    $_____ for multiple dependent claim surcharge.
    Applicant must either submit the additional claim fees or cancel additional claims for which fees are due.

☒ 3. The oath or declaration:
    ☒ is missing or unsigned.
    ☐ does not cover the newly submitted items.
    An oath or declaration in compliance with 37 CFR 1.63, including residence information and identifying the application by the above Application Number and Filing Date is required.

☐ 4. The signature(s) to the oath or declaration is/are by a person other than inventor or person qualified under 37 CFR 1.42, 1.43 or 1.47.
    A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.

☐ 5. The signature of the following joint inventor(s) is missing from the oath or declaration:
1124
_____

    An oath or declaration in compliance with 37 CFR 1.63 listing the names of all inventors and signed by the omitted inventor(s), identifying this application by the above Application Number and Filing Date, is required.

☐ **6. A $50.00 processing fee is required since your check was returned without payment (37 CFR 1.21(m)).**
☐ 7. Your filing receipt was mailed in error because your check was returned without payment.
☐ 8. The application was filed in a language other than English.
    Applicant must file a verified English translation of the application, the $130.00 set forth in 37 CFR 1.17(k), unless previously submitted, and a statement that the translation is accurate (37 CFR 1.52(d)).
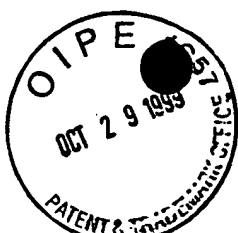
☐ 9. OTHER:_____

Direct the reply and any questions about this notice to "Attention: Box Missing Parts."

A copy of this notice MUST be returned with the reply.

C. Moell

Customer Service Center
Initial Patent Examination Division (703) 308-1202

FORM PTO-1533 (REV. 9/98)

11/01/1999 ASAHLE 00000015 09371972
01 FC:105 130.00 OP

U.S. GPO: 1998 446-824

PART 2 - COPY TO BE RETURNED WITH RESPONSE

Se c to R$/

0001/PTO Rev. 10/95	U.S. Department of Commerce Patent and Trademark Office	Application Number	09/371,972
		Filing Date	August 10, 1999
TRANSMITTAL FORM		First Named Inventor	Konstantine I. Iourcha
(to be used for all correspondence during pendency of filed application)		Group Art Unit Number	2787
		Examiner Name	not yet known
Total Number of Pages in This Submission	16	Attorney Docket Number	3594 US

ENCLOSURES (check all that apply)

☑ Fee Transmittal Form (in duplicate)

    ☑ Check Enclosed

☑ Return Receipt Postcard

☑ Response to Notice to File Missing Parts

☐ Assignment & PTO-1595

☑ Declaration

☐ Small Entity Statement

☐ Information Disclosure Statement & PTO-1449

    ☐ Copies of IDS Cited References

☑ Request for Corrected Filing Receipt

☐ Request for Correction of Recorded Assignment

☐ Amendment/Response: [ ] Page(s)

    ☐ After Final

☐ Status Request

☐ Revocation and Power of Attorney

☐ Issue Fee Transmittal

☐ Letter to Chief Draftsperson

☐ Formal Drawing(s):

    [ ] Sheet(s) of Figure(s) [ ]

☐ Appeal Communication to Board of Appeals and Interferences

☐ Appeal Communication to Group
(Appeal Notice, Brief, Reply Brief)

☐ Certified Copy of Priority Document(s)

☐ After Allowance Communication to Group

☑ Copy of Filing Receipt

☑ Copy of 1st Page of Specification

☑ Copy of Executed Declaration

☑ Certification of 1st Class Mailing

☑ Authorization to Charge Deposit Account
(via fee transmittal)

REMARKS:

SIGNATURE OF ATTORNEY OR AGENT

Signature:	
Attorney/Reg. No.:	**Arnold M. de Guzman, Esq./ Reg. No.: 39,955**

Dated: Oct. 26, 1999

CERTIFICATE OF MAILING

I hereby certify that this correspondence, including the enclosures identified above, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on the date shown below. If the Express Mail Mailing Number is filled in below, then this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service pursuant to 37 CFR 1.10.

Signature:	
Typed or Printed Name:	**Arnold M. de Guzman, Esq.**

Dated: Oct. 26, 1999

Express Mail Mailing Number *(optional)*:

18235/03594/950858 V
Rev. 10/26/99

PTO/SB/17 (6-95)(modified)
Approved for use through 11/30/96, OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

0002/PTO(modified) Rev. 10/95	U.S. Department of Commerce Patent and Trademark Office	**Complete if Known**	
		Application Number	09/371,972
FEE TRANSMITTAL		Filing Date	August 10, 1999
		First Named Inventor	Konstantine I. Iourcha
		Group Art Unit	2787
TOTAL AMOUNT OF PAYMENT		Examiner Name	not yet known
Subtotal (1) + Subtotal (2) + Subtotal (3) =	**($)155.00**	Attorney Docket Number	3594 US

METHOD OF PAYMENT

1. The Commissioner is hereby authorized to:

[ ] Charge the indicated fees to the below mentioned deposit account.

[X] Charge any additional fee required under 37 CFR 1.16 - 1.21 or credit any over payments to the below mentioned deposit account. †

[ ] Charge the Issue Fee set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b) to the below mentioned deposit account.

Deposit Account Number: 19-2555
Deposit Account Name: FENWICK & WEST LLP

A Duplicate Copy of this authorization is attached

2. [X] Payment Enclosed:
[X] Checks [ ] Other

FEE CALCULATION (fees effective 11/12/98)

1. FILING FEE

Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	Fee Due
101/$760	201/$380	Utility Filing	
106/$310	206/$155	Design Filing	
108/$760	208/$380	Reissue Filing	
114/$150	214/$75	Provisional Filing	

SUBTOTAL (1) ($)0.00

2. CLAIMS

Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description
103/$18	203/$9	Claims in excess of 20
102/$78	202/$39	Independent claims in excess of 3
104/$260	204/$130	Multiple dependent claim
109/$78	209/$39	Reissue independent claims over original patent
110/$18	210/$9	Reissue claims in excess of 20 and over original patent

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	Fee Due
105/$130	205/$65	Surcharge - late filing fee or oath	130
127/$50	227/$25	Surcharge-late provisional filing fee or cover sheet	
147/$2,520	147/$2,520	For filing a request for reexamination	
115/$110	215/$55	Extension for response within first month†	
116/$380	216/$190	Extension for response within second month†	
117/$870	217/$435	Extension for response within third month†	
118/$1,360	218/$680	Extension for response within fourth month†	
128/$1,850	228/$925	Extension for response within fifth month†	
119/$300	219/$150	Notice of Appeal	
141/$1,210	241/$605	Petition to revive unintentionally abandoned application	
142/$1,210	242/$605	Utility Issue Fee (Or Reissue)	
143/$430	243/$215	Design Issue Fee	
122/$130	122/$130	Petitions to the Commissioner	
123/$50	123/$50	Petitions related to provisional applications	
126/$240	126/$240	Submission of Information Disclosure Statement	
581/$40	581/$40	Recording each patent assignment per property (times number of properties)	
146/$760	246/$380	Filing a submission after final rejection (37 CFR 1.129(a))	
149/$760	249/$380	For each additional invention to be examined (37 CFR 1.129(b))	
	Other fee (specify):	Request For Corrected Filing Receipt	25
	Other fee (specify):		

SUBTOTAL (3) ($) 155.00

For	(Col. 1) No. of Existing Claims		(Col. 2) Highest No. Previously Paid For		(Col. 3) Extra**		Fee		Fee Due
TOTAL		minus*	20	or		=	x	=	
INDEP		minus*	3	or		=	x	=	
[ ] First presentation of multiple dependent claim								=	

* Subtract the greater number of Col. 2
** If the difference between Col. 1 and Col. 2 is less than zero, then enter "0" in Col. 3

SUBTOTAL (2) ($)0.00

SUBMITTED BY		Complete (if applicable)	
Typed or Printed Name	Arnold M. de Guzman, Esq.	Reg. Number	39,955
Signature		Date	Oct. 26, 1999

† Request for Extension of Time per 37 CFR 1.136 (a)(3) made hereby

18235/03594/950855 V
Rev. 10/26/99

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

APPLICANT(S):   KONSTANTINE I. IOURCHA, CHUNG-KUANG CHIN & ZHOU HONG

SERIAL NO.:   09/371,972

FILING DATE: August 10, 1999

TITLE: Systems & Method For Rasterizing Primitives Using Direct Interpolation

EXAMINER: not yet known

GROUP ART UNIT: 2787

ATTY. DKT. NO.:   3594 US

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner For Patents, Washington, D.C. 20231, on the date shown below:

Dated: _October 26, 1999_   By: _____

Arnold M. de Guzman, Reg. No.: 39,955

BOX MISSING PARTS
ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

RESPONSE TO NOTICE TO FILE MISSING
PARTS OF APPLICATION

SIR:

Responsive to Form PTO-1533 dated August 26, 1999 received in the above-identified patent application, enclosed are:

     ☑ a copy of the Notice to File Missing Parts;

     ☑ an original, signed Declaration;

     ☑ a check in the amount of $130.00 for the surcharge;

     ☑ Request to Correct Filing Receipt;

         ☑ copy of the Filing Receipt;

         ☑ copy of the first page of the Specification;

         ☑ copy of the original, signed Declaration ;

         ☑ a check for $25.00 for Correction of Filing Receipt;

18235/03594/950413 V

In accordance with the requirements under MPEP 605.04 (b), Applicants hereby notify the Examiner and USPTO of a typographical or transliteration error in the spelling of an inventor's name in this application. In particular, the name of inventor Ken Chen should be correctly changed to Chung-Kuang Chin as shown in the enclosed inventor declaration form.

Respectfully submitted,
KONSTANTINE I. IOURCHA,
CHUNG-KUANG CHIN & ZHOU HONG

Dated: _____October 26, 1999_____   By: _____

Arnold M. de Guzman, Reg. No.: 39,955
Fenwick & West LLP
Two Palo Alto Square
Palo Alto, CA 94306
Tel.: (650) 858-7986
Fax.: (650) 494-1417

2

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

APPLICANT(S):   KONSTANTINE I. IOURCHA, CHUNG-KUANG CHIN & ZHOU HONG

SERIAL NO.:   09/371,972

FILING DATE: August 10, 1999

TITLE: Systems & Method For Rasterizing Primitives Using Direct Interpolation

EXAMINER: not yet known

GROUP ART UNIT: 2787

ATTY. DKT. NO.:   3594 US

CERTIFICATE OF MAILING

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Dated: _October 26, 1999_   By: _____

Arnold M. de Guzman, Reg. No.: 39,955

ASSISTANT COMMISSIONER FOR PATENTS
APPLICATION PROCESSING DIVISION
CUSTOMER CORRECTION BRANCH
WASHINGTON, DC. 20231

REQUEST FOR CORRECTED FILING RECEIPT

SIR:

Enclosed is a copy of the Official Filing Receipt. It contains the following errors:

1.   An Applicant's name is erroneously stated as Ken Chen. The Applicant's correct name is **Chung-Kuang Chin** as evidenced by the executed Declaration, a copy of which is enclosed. Applicants initially presented the inventor's name as he is commonly know, i.e., 'Ken Chin', as evidenced by the first page of the Specification (copy enclosed). The USPTO's error was in the misspelling of inventor's last name: 'Chen' instead of **'Chin'**. Applicants respectfully request that the USPTO replace the present name of inventor 'Ken Chin' to the inventor's legal name (**Chung-Kuang Chin**) in this application.

1

2.   At the time of filing of this application, Inventor Chung-Kuang Chin's residence was not available and was not known to the Attorney Of Record. Inventor Chung-Kuang Chin's residence, is **Saratoga, California**, as evidenced by the executed Declaration, a copy of which is enclosed.

3.   Inventor Zhou Hong's address should be changed to **Cupertino, California**, as evidenced by the executed Declaration, a copy of which is enclosed.

Please issue a corrected Filing Receipt rectifying these errors.

Since at least one of the corrections is due to Applicants' omission, payment in the amount of $25, pursuant to 37 CFR § 1.19(h), is enclosed.

Respectfully submitted,
KONSTANTINE I. IOURCHA,
CHUNG-KUANG CHIN & ZHOU HONG

Dated: _October 26, 1999_   By: _____

Arnold M. de Guzman, Reg. No.: 39,955
Fenwick & West LLP
Two Palo Alto Square
Palo Alto, CA 94306
Tel.: (650) 858-7986
Fax.: (650) 494-1417

2

OCT 2 9 1999

UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

COPY

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT	
09/371,972	08/10/99	2787	$994.00	3594-US	8	15	6

ARNOLD M DE GUZMAN ESQ
FENWICK & WEST LLP
TWO PALO ALTO SQUARE
PALO ALTO CA 94306

RECEIVED

AUG 3 0 1999

FENWICK & WEST LLP

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts of Application" ("Missing Parts Notice") in this application, please submit any corrections to this Filing Receipt with your reply to the "Missing Parts Notice." When the PTO processes the reply to the "Missing Parts Notice," the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

CHUNG-KUANG CHIN

Applicant(s)   KONSTANTINE I. IOURCHA, SAN JOSE, CA; ~~KEN CHEN,~~
~~RESIDENCE NOT PROVIDED~~; ZHOU HONG, ~~RESIDENCE NOT PROVIDED~~
~~OF~~ SARATOGA, CA   CUPERTINO, CA.

CONTINUING DATA AS CLAIMED BY APPLICANT-
        PROVISIONAL APPLICATION NO. 60/095,995 08/10/98

IF REQUIRED, FOREIGN FILING LICENSE GRANTED 08/26/99
TITLE
SYSTEM AND METHOD FOR RASTERIZING PRIMITIVES USING DIRECT
INTERPOLATION

PRELIMINARY CLASS: 708

Best Available

DATA ENTRY BY: MOLLISH, CHRISTINE   TEAM: 03 DATE: 08/26/99

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "FOREIGN FILING LICENSE GRANTED" followed by a date appears on the reverse side of this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.11. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related application(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations, especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR Parts 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "FOREIGN FILING LICENSE GRANTED" DOES NOT appear on the reverse side of this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

PLEASE NOTE ---- The Following Information about the Filing Receipt:

The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.

The words "new," "improved," "improvement," "improvements in or relating to" are not included as the first words in the title of an application because a patent application is, by nature, a new idea or improvement.

The title may be truncated if it consists of more than 4 lines of 70 characters each (letters and spaces combined).

The inventor information may be truncated if the family name consists of more than 25 characters (letters and spaces combined) and if the given name consists of more than 25 characters (letters and spaces combined). The inventor's residence allows for up to 40 characters (letters and spaces combined).

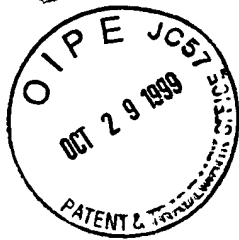The docket number allows a maximum of 12 characters.

If your application was submitted under 37 CFR 1.10, your filing date should be the "date in" found on the Express Mail label. If there is a discrepancy, you should submit a request for a corrected Filing Receipt along with a copy of the Express Mail label showing the "date in."

Customer Address may have been modified to conform to U.S. Postal rules.

Please direct correction, including a copy of your Filing Receipt, to:
<div style="text-align:center">

Assistant Commissioner for Patents
Office of Initial Patent Examination
Customer Service Center
Washington, DC 20231

</div>

SYSTEM AND METHOD FOR RASTERIZING PRIMITIVES USING DIRECT INTERPOLATION

Inventors:
Konstantine I. Iourcha,
Ken Chin, and
Zhou Hong

CROSS-REFERENCE TO RELATED APPLICATION

The subject matter of this application is related to the subject matter of co-pending U.S. Patent Application Serial No. 09/020,152 filed on February 6, 1998, by Konstantine Iourcha, Andrea Nguyen, and Daniel Hung, entitled "FAST ADDER/SUBTRACTOR FOR SIGNED FLOATING POINT NUMBERS", which is fully incorporated herein by reference.   This application claims priority to U.S. Provisional Application Serial No. 60/095,995 filed on August 10, 1998, by Konstantine Iourcha et al., entitled "RATIO ENGINE FOR GRAPHIC INTERPOLATION", which is fully incorporated herein by reference.

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates generally to rendering graphics systems,and more particularly to texture mapping in graphics systems.